

HIGH REFRACTIVE INDEX COATING FILM

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Abstract

PURPOSE: To obtain a titled film having good weatherability and chemical resistance by consisting said film essentially of fine Ti oxide particles having 1-100nm grain size and the org. silane compd. expressed by the prescribed formula and incorporating both at prescribed weight % therein.

CONSTITUTION: This film consists essentially of the titanium oxide A having 1-100nm grain size and the org. silane compd. expressed by the formula I. This high refractive index coating film contains 10-90wt. % A and 90-10wt. % B. In the formula, R denotes methyl, ethyl, propyl, butyl group, X the formula II, a is 0 or 1. The Ti oxide A in the form of hyperfine particles in such compsn. has the high refractive index and the disilane compd. has excellent crosslinkability and is physically and chemically stable. The coating film having the excellent weatherability, chemical resistance, scratching resistance and dyability is obtd. when both the components are combined. Changing of the refractive index is possible, in addition, the application of this film to the scratch-resistant coating of plastic materials and the UV absorption film of glass and the formation of an antireflection film by combining and laminating the coating films of varied compsns. are permitted as well.

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